



Enabling High-Penetration Solar PV through Next-Generation Power Electronic Technologies

October 11-12, 2016

National Renewable Energy Laboratory (NREL) | Energy Systems Integration Facility

Agenda

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Day 1: Octob	er 11, 2016 (12:30 p.m5 p.m.)	
Time	Description	Presenter
12:30 p.m.	Registration and networking	
12:45 p.m.	Welcome and Grid Modernization Initiative overview	Ben Kroposki <i>NREL</i>
1:00 p.m.	Opening Keynote—Overview of U.S. Department of Energy's (DOE's) SunShot Initiative, Systems Integration, and Power Electronics Programs	Guohui Yuan DOE Office of Energy Efficiency and Renewable Energy (EERE) SunShot Initiative
1:30 p.m.	Keynote Presentation —Power Electronics: Where We Stand Now	Kathleen O'Brien General Electric Global Research Center
2:30 p.m.	Break	
2:45 p.m.	Overview of the workshop	Guohui Yuan
3:00 p.m.	Panel 1—DOE Sunshot Initiative and National Laboratory Research Activities on PV Power Electronics Moderator: Madhu Chinthavali, Oak Ridge National Laboratory	Samer Arafa Solectria Renewables
		Sudipta Chakraborty NREL
		Paul Ohodnicki National Energy Technology Laboratory (NETL)
4:30 p.m.	Group discussion to gather input on research activities	
	Moderator: Guohui Yuan	
5:00 p.m.	Close of Day 1 of the workshop	











Day 2: Octobe	er 12, 2016 (8 a.m4:45 p.m.)	
Time	Description	Presenter
8:00 a.m.	Continental breakfast and networking	
8:15 a.m.	Welcome and Day 2 overview	Guohui Yuan
8:30 a.m.	Panel 2—Future for PV Power Electronics: Components	Alex Huang North Carolina State University
	Moderator: Paul Ohodnicki	Jeff Casady <i>Wolfspeed</i>
		Charles Sullivan <i>Dartmouth College</i>
		Brian MacCleery National Instruments
10:15 a.m.	Break	
10:30 a.m.	Panel 3—Future for PV Power Electronics: Systems	Robert Erickson University of Colorado Boulder
	Moderator: Sudipta Chakraborty	Sandeep Bala <i>ABB Corporate Research Center</i>
		Leo Casey Google
12:00 p.m.	Lunch and networking	
1:00 p.m.	Breakout Session 1—Research Needs for Next- Generation Power Electronics Components	
	Moderators: Guohui Yuan, Garrett Nilsen, U.S. Department of Energy, Madhu Chinthavali, and Paul Ohodnicki	
2:15 p.m.	Breakout groups report back	
2:30 p.m.	Break	
2:45 p.m.	Breakout Session 2— Research Needs for Next-Generation Power Electronics Systems	
	Moderators: Guohui Yuan, Garrett Nilsen, Sudipta Chakraborty, and Mari Shirazi, <i>NREL</i>	
4:00 p.m.		
4:00 p.m. 4:15 p.m.	Sudipta Chakraborty, and Mari Shirazi, NREL	Guohui Yuan